

Nonwoven Fabric Mills: 2002

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2002 Economic Census

Manufacturing

Industry Series



U S C E N S U S B U R E A U

Helping You Make Informed Decisions

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU



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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
313230, Nonwoven fabric mills 2002..	214	257	21 028	832 542	15 783	32 070	543 732	2 580 507	3 236 783	5 808 486	418 196
2001..	N	N	21 083	731 939	15 861	33 352	489 275	1 998 273	2 389 069	4 406 758	403 533
2000..	N	N	22 519	802 028	17 444	35 986	526 432	2 236 857	2 652 595	4 872 765	370 564
1999..	N	N	21 190	750 131	15 913	34 617	491 603	2 296 299	2 359 762	4 674 168	285 112
1998..	N	N	20 807	720 817	15 118	31 532	449 043	1 936 909	2 475 977	4 416 091	246 106
1997..	212	252	21 162	693 101	15 867	33 228	428 568	1 751 967	2 645 508	4 367 765	301 194

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
313230, Nonwoven fabric mills												
United States	—	257	152	21 028	832 542	15 783	32 070	543 732	2 580 507	3 236 783	5 808 486	'418 196
California	8	11	4	259	8 601	198	408	5 536	23 301	21 203	42 880	'1 052
Georgia	2	21	12	1 860	66 247	1 565	3 056	47 680	217 440	244 509	467 341	'60 619
Illinois	3	9	2	105	2 741	86	157	1 745	7 867	7 491	15 480	'146
Massachusetts	1	13	8	725	29 147	484	1 019	15 711	47 387	59 232	114 777	'5 003
New Jersey	—	8	4	203	6 845	156	300	4 233	27 044	29 184	56 167	'535
New York	2	24	12	925	37 433	679	1 383	24 157	113 229	111 982	225 091	'4 406
North Carolina	—	27	21	2 960	128 981	2 218	4 508	78 299	332 794	471 886	808 711	'113 485
Ohio	1	7	5	517	17 792	465	1 048	15 458	60 260	35 954	97 791	'1 573
Pennsylvania	—	15	7	1 610	55 701	1 258	2 431	31 738	135 808	94 490	223 164	'8 699
Rhode Island	2	4	2	342	11 163	275	505	8 198	29 634	29 929	58 550	'707
South Carolina	—	28	23	2 872	107 597	2 188	4 658	72 252	289 614	277 925	567 572	'55 738
Wisconsin	—	11	6	926	34 903	613	1 101	23 217	91 111	84 753	177 608	'30 816

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
313230, Nonwoven fabric mills	
Companies ¹	number.. 214
All establishments ²	number.. 257
Establishments with 1 to 19 employees	number.. 105
Establishments with 20 to 99 employees	number.. 97
Establishments with 100 employees or more	number.. 55
All employees ³	number.. 21 028
Total compensation	\$1,000.. 1 094 050
Annual payroll	\$1,000.. 832 542
Total fringe benefits	\$1,000.. 261 508
Production workers, average for year	number.. 15 783
Production workers on March 12	number.. 15 853
Production workers on May 12	number.. 15 658
Production workers on August 12	number.. 15 790
Production workers on November 12	number.. 15 784
Production worker hours	1,000.. 32 070
Production worker wages	\$1,000.. 543 732
Total cost of materials	\$1,000.. 3 236 783
Materials, parts, containers, packaging, etc., used	\$1,000.. 2 909 320
Resales	\$1,000.. 72 823
Purchased fuels	\$1,000.. 53 668
Purchased electricity	\$1,000.. 131 408
Contract work	\$1,000.. 69 564
Quantity of electricity purchased for heat and power	1,000 kWh.. 3 607 591
Quantity of electricity generated less sold for heat and power	1,000 kWh.. 50
Total value of shipments	\$1,000.. 5 808 486
Primary products value of shipments	\$1,000.. 4 474 719
Secondary products value of shipments	\$1,000.. 1 213 688
Total miscellaneous receipts	\$1,000.. 120 079
Value of resales	\$1,000.. 91 619
Contract receipts	\$1,000.. 7 220
Other miscellaneous receipts	\$1,000.. 21 240
Primary products specialization ratio	percent.. 79
Value of primary products shipments made in all industries	\$1,000.. 4 747 415
Value of primary products shipments made in this industry	\$1,000.. 4 474 719
Value of primary products shipments made in other industries	\$1,000.. 272 696
Coverage ratio	percent.. 94
Value added	\$1,000.. 2 580 507
Total inventories, beginning of year	\$1,000.. 650 760
Finished goods inventories	\$1,000.. 314 103
Work-in-process inventories	\$1,000.. 147 252
Materials and supplies inventories	\$1,000.. 189 405
Total inventories, end of year	\$1,000.. 655 743
Finished goods inventories	\$1,000.. 329 429
Work-in-process inventories	\$1,000.. 140 730
Materials and supplies inventories	\$1,000.. 185 584
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '3 697 781
Total capital expenditures (new and used)	\$1,000.. '418 196
Buildings and other structures (new and used)	\$1,000.. '45 787
Machinery and equipment (new and used)	\$1,000.. '372 409
Automobiles, trucks, etc., for highway use	\$1,000.. '1 780
Computers and peripheral data processing equipment	\$1,000.. '23 193
All other expenditures for machinery and equipment	\$1,000.. '347 436
Total retirements	\$1,000.. '209 889
Gross value of depreciable assets at end of year	\$1,000.. '3 906 088
Depreciation charges during year	\$1,000.. '239 035
Total rental payments	\$1,000.. 54 431
Buildings and other structures	\$1,000.. 29 818
Machinery and equipment	\$1,000.. 24 613
Total other expenses ⁴	\$1,000.. 365 431
Response coverage ratio ⁵	percent.. 87
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 63 316
Communications services ⁴	\$1,000.. 6 440
Legal services ⁴	\$1,000.. 4 939
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 2 925
Advertising and promotional services ⁴	\$1,000.. 19 890
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 7 954
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 7 517
Management consulting and administrative services ⁴	\$1,000.. 9 453
Taxes and license fees ⁴	\$1,000.. 20 194
All other expenses ⁴	\$1,000.. 222 803

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
313230, Nonwoven fabric mills											
All establishments	—	257	21 028	832 542	15 783	32 070	543 732	2 580 507	3 236 783	5 808 486	'418 196
Establishments with—											
1 to 4 employees	9	45	89	3 491	72	138	2 482	8 668	8 951	17 618	'347
5 to 9 employees	6	25	167	7 435	136	279	5 578	23 416	25 857	49 421	'698
10 to 19 employees	5	35	505	20 578	362	721	13 021	49 030	45 852	105 127	'3 685
20 to 49 employees	2	59	1 892	69 386	1 423	2 842	43 933	194 876	224 423	414 548	'17 510
50 to 99 employees	2	38	2 714	92 500	2 127	4 201	60 655	271 393	303 202	576 560	'19 490
100 to 249 employees	—	36	5 779	210 996	4 360	9 348	141 926	617 487	594 523	1 215 751	'58 986
250 to 499 employees	—	12	h	D	D	D	D	D	D	D	D
500 to 999 employees	—	5	2 917	132 584	1 973	4 062	82 974	449 287	715 016	1 128 222	45 894
1,000 to 2,499 employees	—	2	h	D	D	D	D	D	D	D	D
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	64	300	12 392	244	488	9 025	31 533	32 940	64 472	'1 263

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
313230	Nonwoven fabric mills	257	21 028	832 542	15 783	32 070	543 732	2 580 507	3 236 783	5 808 486	'418 196
3132301	Nonwoven fabrics	89	12 320	522 821	8 908	18 708	338 742	1 763 447	2 475 961	4 227 342	'355 872
3132303	Fabricated nonwoven products	32	4 138	134 000	3 275	5 954	84 013	372 129	374 249	741 739	'26 664
3132305	Pressed, punched, or needled felts (except hats)	38	3 639	141 427	2 849	5 992	96 843	370 891	309 705	687 887	'33 116

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
313230	Nonwoven fabric mills	2002.. N 1997.. N	X X	X X	4 747 415 4 236 062
3132301	Nonwoven fabrics	2002.. N 1997.. N	X X	X X	3 201 452 2 784 259
31323011	Nonwoven fabrics	2002.. N 1997.. N	X X	X X	3 176 316 2 740 152
3132301111	Nonwoven fabrics, dry laid, carded	2002.. 38 1997.. 28	X X	X X	711 959 728 936
3132301121	Nonwoven fabrics, air laid	2002.. 11 1997.. 8	X X	X X	123 242 101 483
3132301131	Nonwoven fabrics, wet laid	2002.. 13 1997.. 16	X X	X X	937 221 511 930
3132301141	Nonwoven fabrics, spunbonded	2002.. 15 1997.. 20	X X	X X	748 970 751 889
3132301151	Nonwoven fabrics, melt blown	2002.. 6 1997.. 8	X X	X X	167 699 140 513
3132301161	Other nonwoven fabrics	2002.. 37 1997.. 24	X X	X X	487 225 505 401
3132301Y	Nonwoven fabrics, nsk	2002.. N 1997.. N	X X	X X	25 136 44 107
3132301YVV	Nonwoven fabrics, nsk	2002.. N 1997.. N	X X	X X	25 136 44 107
3132303	Fabricated nonwoven products	2002.. N 1997.. N	X X	X X	751 841 838 357
31323031	Blankets, wipers, and ribbons made from nonwoven fabrics	2002.. N 1997.. N	X X	X X	375 839 376 335
3132303111	Blankets made from nonwoven fabrics	2002.. 11 1997.. 6	X X	X X	130 758 D
3132303141	Wipers made from nonwoven fabrics, including windshield, industrial, and lithographic	2002.. 8 1997.. 16	X X	X X	90 415 D
3132303151	Ribbons, laminated and nonlaminated gift tyings, including decorative string, bows, rosettes, and all gift tyings, nonwoven	2002.. 8 1997.. N	X X	X X	154 666 N
31323032	Other fabricated nonwoven products, all other, excluding diapers and orthopedic, prosthetic, and surgical supplies	2002.. N 1997.. N	X X	X X	371 202 457 480
3132303251	Other fabricated nonwoven products, all other, excluding diapers and orthopedic, prosthetic, and surgical supplies	2002.. 23 1997.. 27	X X	X X	371 202 457 480
3132303Y	Fabricated nonwoven products, nsk	2002.. N 1997.. N	X X	X X	4 800 4 542
3132303YVV	Fabricated nonwoven products, nsk	2002.. N 1997.. N	X X	X X	4 800 4 542
3132305	Pressed, punched, or needled felts (except hats)	2002.. N 1997.. N	X X	X X	667 337 537 688
31323051	Pressed felts, excluding hats	2002.. N 1997.. N	X X	X X	81 194 101 209
3132305111	Pressed felts, excluding hats	2002.. 10 1997.. 14	X X	X X	81 194 101 209
31323052	Punched or needled felts, including stitch bonded, hair and/or jute felts, including carpet and rug linings and cushions (except hats)	2002.. N 1997.. N	X X	X X	45 944 27 468
3132305221	Punched or needled felts, including stitch bonded, hair and/or jute felts, including carpet and rug linings and cushions (except hats)	2002.. 9 1997.. 7	X X	X X	45 944 27 468
31323053	Punched or needled felts, including stitch bonded, wool felts and manmade fiber felts, excluding carpet and rugs suitable for outdoor use (indoor-outdoor) (except hats)	2002.. N 1997.. N	X X	X X	538 098 402 441
3132305331	Punched or needled felts, including stitch bonded, wool felts and manmade fiber felts, excluding carpet and rugs suitable for outdoor use (indoor-outdoor) (except hats)	2002.. 20 1997.. 30	X X	X X	538 098 402 441
3132305Y	Pressed, punched, or needled felts (except hats), nsk	2002.. N 1997.. N	X X	X X	2 101 6 570
3132305YVV	Pressed, punched, or needled felts (except hats), nsk	2002.. N 1997.. N	X X	X X	2 101 6 570
313230W	Nonwoven fabric mills, nsk, total	2002.. N 1997.. N	X X	X X	126 785 75 758
313230WY	Nonwoven fabric mills, nsk, total	2002.. N 1997.. N	X X	X X	126 785 75 758
313230WYWW	Nonwoven fabric mills, nsk, for nonadministrative-record establishments	2002.. N 1997.. N	X X	X X	65 603 36 723
313230WYWY	Nonwoven fabric mills, nsk, for administrative-record establishments	2002.. N 1997.. N	X X	X X	61 182 39 035

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3132301	Nonwoven fabrics	
	United States..... 2002..	3 201 452
	..... 1997..	2 784 259
	California 2002..	29 897
	..... 1997..	N
	Georgia 2002..	315 724
	..... 1997..	289 311
	Massachusetts 2002..	74 313
	..... 1997..	58 507
	New York 2002..	47 004
	..... 1997..	56 869
	North Carolina 2002..	745 933
	..... 1997..	635 366
	Ohio 2002..	16 210
	..... 1997..	N
	Pennsylvania 2002..	22 631
	..... 1997..	N
	South Carolina 2002..	319 465
	..... 1997..	432 839
	Wisconsin 2002..	138 995
	..... 1997..	131 950
3132303	Fabricated nonwoven products	
	United States..... 2002..	751 841
	..... 1997..	838 357
	Massachusetts 2002..	27 416
	..... 1997..	45 081
	New York 2002..	101 624
	..... 1997..	73 701
	North Carolina 2002..	46 006
	..... 1997..	84 208
	Pennsylvania 2002..	172 358
	..... 1997..	125 146
	South Carolina 2002..	53 011
	..... 1997..	53 625
3132305	Pressed, punched, or needled felts (except hats)	
	United States..... 2002..	667 337
	..... 1997..	537 688
	Georgia 2002..	116 896
	..... 1997..	34 373
	Massachusetts 2002..	32 779
	..... 1997..	46 061
	New York 2002..	75 153
	..... 1997..	N
	Pennsylvania 2002..	11 561
	..... 1997..	7 185
	South Carolina 2002..	167 412
	..... 1997..	139 653

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
313230	Nonwoven fabric mills		
00900001	Total materials .....2002..	X	2 909 320
	.....1997..	X	2 425 795
11192001	Cotton fibers, raw 1,000 bales ..2002..	S	10 289
	.....1997..	S	29 363
11200001	Other animal fibers (wool, mohair, etc.), raw .....2002..	X	D
	.....1997..	X	N
32522104	Rayon and acetate staple and tow .....2002..	X	45 392
	.....1997..	X	N
32522200	Noncellulosic (polyester, nylon, etc.) fibers .....2002..	X	343 053
	.....1997..	X	N
31311003	Yarn, all fibers .....2002..	X	103 226
	.....1997..	X	132 941
31320003	Textile fabrics .....2002..	X	59 812
	.....1997..	X	69 391
32212002	Paper (cellulosic wadding) .....2002..	X	106 981
	.....1997..	X	N
32552008	Adhesives and binders (resins) .....2002..	X	D
	.....1997..	X	N
32500015	Additives (fire retardants, water repellants, softeners, antistatics, etc.) .....2002..	X	41 797
	.....1997..	X	45 368
32521139	Vinyl and vinyl copolymer resins (all forms) .....2002..	X	6 586
	.....1997..	X	10 814
32521115	Plastics resins (excluding vinyl) consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	491 704
	.....1997..	X	562 676
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	72 070
	.....1997..	X	90 628
32513003	Dyes, lakes, and toners .....2002..	X	30 667
	.....1997..	X	27 744
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	1 434 530
	.....1997..	X	1 341 025
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	89 505
	.....1997..	X	115 845

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.